

Product datasheet for **MC220033**

Phactr1 (NM_001005740) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phactr1 (NM_001005740) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phactr1
Synonyms:	9630030F18Rik; Rpel1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220033 representing NM_001005740
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTGTGAGCCTCCTCTTTCCCTCCTCCCTTTCCGCTCTCTCCCTCCCTCTCTCCATCTCC
 TTCTCCTCTCAGCTCGCCGGGCGACCCTGCTCCTGCCTCCCACATTAATGGCGGCTTCTTCGGAGGATGA
 CATAGACCGGCGGCCATCAGAAGAGTCCGCTCCAAGAGCGACACGCCATATCTCGCAGAGGCCAGGATC
 TCCTTTAACTGGGGGACGCCGAGGAAGTGAGAGGCTGGCAGCCATGCGTTCCGACTCGCTGGTCCAG
 GTACGCACACCCCGCCATCCGGAGGAGGAGTAAGTTTGCAACCTGGGGAGGATTTTCAAACCTGGAA
 ATGGAGGAAGAAGAAAAGTGAAGTTCAAGCACACGTCAGCAGCTCTGGAAAGGAAGATTTTCGATGAGG
 CAGAGCAGAGAGGAGCTGATCAAGAGAGGGTCTTGAAGGAGATCTACGATAAAGATGGAGAAGCTCTTA
 TATCAAATGAAGATGACTCCCTGGAGAACGGACAGTCCCTGAGCTCCAGCCAACCTCTTTGCTGCTCT
 GTCGGAATGGAGCCTGTCCCAATGCCAGGGACCCATGCTCATATGAGGTGCTCCAAGTTCAGACATT
 ATGGATGGACCAGTGTCTGAAGAGAGTCCCTCTGCCAGTGAAGTCTGGAGTCTCCTGTCCCAAGATCCTT
 CAGCCAAACAGTTCTGTTCCTGCCCCCAAAAAATCTGCTGCTTTCCCTGGAGACCATGAGGAGACCC
 AGTGAAACAGTTGCTCCTTACAAAGCAGCCCGGCCCTGCCTCCCAACCCACTGCCCGGATTGCCAAC
 CACTTAACAGATCCTGGCGCCCTGTGAAATGCTTGTCTGCCAGTGAAGTGTGCGCTCCGCTACCTC
 CAAAGAAAGTCTGATCTGTATGCTGTAGGGGGGCCAGAGCTCACTCTGGCATCCTATGCAGCCAGAA
 GAGCAGCCAGCAGGCCGTGGCCAGCACCACACCGTCTACCATCCAGATGCAGCACCAGCTGCAG
 TATGGCAGTACGGCCAGCATCTCCATCCTCCACCGCACCTTGCCATGCACCCCTCAGGCTGCAGGA
 TGATCGACGAGCTGAACAAGACACTCGCCATGACGATGCAGAGGCTGGAAAGCTCCGAGCAACAGTCCC
 CTGTTCCAGTCTTACCACAGTTCTGGTTTGCACCTCAAGCGACGGCATCACAAAAGCAGGACCCATGGGC
 CTTCCGGAAATAAGACAAGTGCCAACTGTTGTGATTGAATGTGATGACAATAAGGAAAATGTGCCTCATG
 AACCCGACTATGAAGACTCGCCCTGCCTGTATGGCCGGGAGGAGGAGGAAGAGGAGGAAGATGAAGATGA
 TGACGCTCTTTGTACACCAGCTCACTGGCCATGAAGGTGTGCAGGAAGGACTCCTTAGCCATCAAACCT
 AGCAACAGGCCCTAAGCGAGAGCTAGAAGAAAAGAACATCCTCCCGACAGACGGATGAGGAACGGC
 TGGAGCTCAGACAGCAGATTGGCACCAGCTCACCAGGCGGTGAGCCAGAGACCAACTGCAGAGGAACT
 GGAACAGAGGAACATTTGAAGCCTCGGAATGAACAAGAAGAACAGGAGGAGAAGCGGGAATCAAGAGG
 AGGCTGACTCGCAAGCTCAGCCAAAGGCCACAGTGAAGAAGTCCGGGAGAGGAAGATCCTTATCCGCT
 TCAGTGACTACGTGGAAGTGGCAGATGCCAAGACTATGACCGAAGGGCAGACAAGCCATGGACCCGCT
 CACCGTGCAGACAAAGCTGCCATTCCGGAAGGAACTCAATGAGTTTAAAAGTACCGAGATGGAAGTCCAC
 GAGTTAAGTAGACTTAACCAGGTTTCATCGACCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001005740
- Insert Size:** 1929 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001005740.1, NP_001005740.1</u>
RefSeq Size:	5350 bp
RefSeq ORF:	1929 bp
Locus ID:	218194
UniProt ID:	<u>Q2M3X8</u>
Cytogenetics:	13 A4
Gene Summary:	<p>Binds actin monomers (G actin) and plays a role in multiple processes including the regulation of actin cytoskeleton dynamics, actin stress fibers formation, cell motility and survival, formation of tubules by endothelial cells, and regulation of PPP1CA activity. Involved in the regulation of cortical neuron migration and dendrite arborization (PubMed:30256902). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2).</p>